

FULL VERSION OF PENDING CLAIMS

1 Claim 1 (Original): A lighting apparatus for a liquid crystal display comprising:
2 a. an array of light emitting diodes disposed alongside said liquid crystal display
3 for providing illumination thereof;
4 b. light pipes for transmitting light from said light emitting diodes across a plane
5 parallel with said liquid crystal display; and,
6 c. a filter disposed between said array and said light pipes for filtering out infra-
7 red light from said light emitting diodes.

1 Claim 2 (Original): An apparatus as in Claim 1 wherein said array of light emitting
2 diodes include diodes emitting only red light.

1 Claim 3 (Original): An apparatus as in Claim 1 wherein said array of light emitting
2 diodes include diodes emitting only blue light.

1 Claim 4' (Original): An apparatus as in Claim 1 wherein said array of light emitting
2 diodes include diodes emitting only green light.

1 Claim 5 (Currently Amended): An apparatus as in Claim 1 including a pair of light
2 emitting diode arrays disposed on two sides of said light pipes with a filter disposed between
3 each light emitting diode array and the light pipes, each filter for filtering out infra-red light
4 from each light emitting diode array.

1 Claim 6 (Original): An apparatus as in Claim 5 including a pair of infra-red filters
2 disposed between each of said arrays of light emitting diodes and said light pipes.

1 Claim 7 (Original): An improved lighting apparatus for a liquid crystal display in the
2 cockpit of an aircraft, said apparatus comprising:

3 a. a pair of light emitting diode arrays disposed alongside said liquid crystal
4 display for providing illumination thereof;
5 b. light pipes for transmitting light from said light emitting diode arrays across a
6 plane parallel with and alongside said liquid crystal display; and,
7 c. filters disposed between each of said arrays and said light pipes for filtering
8 out infra-red light from said light emitting diodes.

1 Claim 8 (Original): An apparatus as in Claim 7 wherein each of said arrays of light
2 emitting diodes include diodes emitting only red light.

1 Claim 9 (Original): An apparatus as in Claim 7 wherein each of said arrays of light
2 emitting diodes include diodes emitting only blue light.

1 Claim 10 (Original): An apparatus as in Claim 7 wherein each of said arrays of light
2 emitting diodes include diodes emitting only green light.

1 Claim 11 (Original): A method for illuminating a liquid crystal display for viewing by:
2 a. activating an array of light emitting diodes of a first color adjacent light pipes
3 disposed alongside said liquid crystal display; and,
4 b. filtering infra-red light emitted by said array of light emitting diodes.

1 Claim 12 (Original): The method as in Claim 11 wherein said first color is red.

1 Claim 13 (Original): The method as in Claim 11 wherein said first color is green.

1 Claim 14 (Original): The method as in Claim 11 wherein said first color is blue.

1 Claim 15 (Original): A method for illuminating a liquid crystal display in an aircraft
2 cockpit for viewing by a pilot wearing infra-red goggles, said method comprising:
3 a. activating an array of light emitting diodes adjacent light pipes disposed
4 alongside said liquid crystal display;
5 b. filtering infra-red light emitted by said array of light emitting diodes; and,
6 c. switching colors of said light emitting diodes as required by a pilot of the
7 aircraft.

1 Claim 16 (Currently Amended): The method as in Claim 14~~5~~ wherein said step of
2 switching colors further includes switching on only those light emitting diodes emitting red
3 light.

1 Claim 17 (Currently Amended): The method as in Claim 14~~5~~ wherein said step of
2 switching colors further includes switching on only those light emitting diodes emitting blue
3 light.

1 Claim 18 (Currently Amended): The method as in Claim 14 wherein said step of
2 switching colors further includes switching on only those light emitting diodes emitting green
3 light.

1 Claim 19 (New): A multi-color lighting apparatus for a liquid crystal display,
2 comprising:

3 a. an array of light emitting diodes disposed alongside a plane perpendicular to
4 the liquid crystal display for providing illumination thereof,
5 the array comprising a plurality of different color light emitting diodes
6 for emitting light of more than one color,
7 the light emitting diodes of each color being addressable together as a
8 color group,

9 each color group corresponding to a wavelength of light that is adapted
10 to illuminate a LCD display for viewing with a predetermined type of night-vision
11 equipment;

12 b. light pipes for transmitting light from the light emitting diodes across a plane
13 parallel with the liquid crystal display, the transmitted light illuminating the liquid crystal
14 display;

15 c. an infra-red filter disposed between the array and the light pipes for filtering
16 out infra-red light from the light emitting diodes of all color groups in the array; and

17 d. a switch for selectively powering each color group of light emitting diodes in
18 the array, each switch being used together or separately so that each of the color groups may
19 be selectively powered.

1 Claim 20 (New): A method of multi-color illumination for a liquid crystal display,
2 comprising the steps of:

3 a. selectively activating one or more color groups from an array of light emitting
4 diodes,

5 the array comprising a plurality of different color light emitting diodes
6 for emitting light of more than one color,

7 the light emitting diodes of each color being individually addressable
8 together as a color group,

9 each color group corresponding to a wavelength of light that is adapted
10 to illuminate a LCD display for viewing with a predetermined type of night-vision

- 11 equipment;
- 12 b. filtering infra-red light from the light emitting diodes of all color groups; and
- 13 c. transmitting filtered light from the activated light emitting diodes into light
- 14 pipes for transmitting light across a plane parallel with the liquid crystal display, the
- 15 transmitted light illuminating the liquid crystal display.